

Amendments to the Claims

Kindly amend claims 1 and 49, and cancel claims 4, 6-7, 9, 23-33, 36-47 and 50-51, without prejudice, as set forth below. In compliance with the Revised Amendment Format published in the Official Gazette on February 25, 2003, a complete listing of claims is provided herein. The changes in the amended claims are shown by strikethrough (for deleted matter) and underlining (for added matter).

1. (Currently Amended) A method of managing the locking of resources of a data repository, said method comprising:

having a data repository comprising a hierarchical structure of a plurality of dependently sequenced resources, said hierarchical structure comprising one or more resources having a reference-based relationship and one or more resources having a containment-based relationship;

determining whether a relationship between one resource and another resource of a-the data repository is a containment-based relationship or whether the relationship is a reference-based relationship, wherein the relationship between the one resource and the another resource is a containment-based relationship if the one resource is accessed through the another resource and if there is only one reference from instances of the one resource to the another resource, and the relationship between the one resource and the another resource is a reference-based relationship if the one resource is accessed through the another resource and if there are more than one reference from instances of the one resource to the another resource wherein the data repository comprises a hierarchical structure of a plurality of resources, said hierarchical structure comprising one or more resources having a reference-based relationship and one or more resources having a containment-based relationship;

locking at least one resource of the one resource and the another resource using one type of a chained locking strategy, in response to the determining indicating the relationship is a containment-based relationship; and

locking at least one resource of the one resource and the another resource using another type of a reference-based locking strategy, in response to the determining indicating the relationship is a reference-based relationship, wherein a chained locking strategy is a different locking strategy than a reference-based locking strategy.

2. (Previously Canceled)
3. (Original) The method of claim 1, wherein said locking of said at least one resource is further based on an operation to be performed.
4. (Canceled)
5. (Previously Canceled)
6. (Canceled)
7. (Canceled)
8. (Previously Canceled)
9. (Canceled)
10. (Previously Presented) The method of claim 3, wherein the operation comprises at least one of create, delete, read and write.
11. (Previously Presented) The method of claim 10, wherein the relationship is a containment-based relationship, and the one resource references the another resource, and wherein the locking comprises write locking the one resource in order to create an instance of the another resource.
12. (Previously Presented) The method of claim 10, wherein the relationship is a containment-based relationship, and the one resource references the another resource, and wherein the locking comprises write locking the one resource and the another resource in order to delete an instance of the another resource.

13. (Previously Presented) The method of claim 10, wherein the relationship is a containment-based relationship and the one resource references the another resource, and wherein the locking comprises read locking the another resource in order to read therefrom.

14. (Previously Presented) The method of claim 10, wherein the relationship is a containment-based relationship and the one resource references the another resource, and wherein the locking comprises write locking the another resource in order to write thereto.

15. (Previously Presented) The method of claim 10, wherein the relationship is a reference-based relationship, and the one resource references the another resource, and wherein the locking comprises write locking the one resource in order to delete the one resource.

16. (Previously Presented) The method of claim 10, wherein the relationship is a reference-based relationship, and the one resource references the another resource, and wherein the locking comprises write locking the one resource in order to create an instance of the another resource.

17. (Previously Presented) The method of claim 10, wherein the relationship is a reference-based relationship, and at least one of the one resource references the another resource, and wherein the locking comprises write locking the at least one of the one resource in order to delete the another resource.

18. (Previously Presented) The method of claim 10, wherein the relationship is a reference-based relationship, and the one resource references the another resource, and wherein the locking comprises read locking the one resource and the another resource in order to read the another resource.

19. (Previously Presented) The method of claim 10, wherein the relationship is a reference-based relationship, and at least one of the one resource references the another resource, and wherein the locking comprises read locking at least one of the one resource and write locking the another resource in order to write to the another resource.

20. (Previously Presented) The method of claim 10, wherein the relationship is a referenced-based relationship, and the one resource and the another resource reference a third resource, and wherein the locking comprises read locking one of the one resource and the another resource and write locking the third resource in order to write to the third resource.

21. (Previously Presented) The method of claim 1, wherein the determining comprises employing a set of policies.

22. (Previously Presented) The method of claim 1, wherein the at least one resource comprises at least one of a table and a directory.

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Previously Canceled)

35. (Previously Canceled)

36. (Canceled)

37. (Canceled)

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Canceled)

42. (Canceled)

43. (Canceled)

44. (Canceled)

45. (Canceled)

46. (Canceled)

47. (Canceled)

48. (Previously Canceled)

49. (Currently Amended) The method of claim 1, wherein ~~the one type of locking strategy comprises a chained locking strategy, and the another type of locking strategy comprises a reference-based locking strategy~~ each resource of the plurality of dependently sequenced resources includes a count of the number of references made to it.

50. (Canceled)

51. (Canceled)